NAVILOCK®

Navilock
BT-451 Bluetooth GPS

NEW

u-blox ANTARIS®4 SuperSense® Chipset

"The Navilock BT-451 Bluetooth GPS receiver combines new technology in a new design. Its ANTARIS®4 SuperSense® GPS chipset, developed by u-blox, brings unmatched positioning performance to PDA, smartphone, notebook PC and mobile phone users. u-blox' high sensitivity GPS chip enables the receiver to work even when placed in covert locations, such as trouser pockets or belt clips, without losing the signal."

General specification

- u-blox ANTARIS®4 SuperSense® GPS Chipset
- High Sensitivity (Tracking sensitivity: -158 dBm)
- 19 hrs battery life
- WAAS, EGNOS und MSAS Support
- Very short TTFF (Time To First Fix)
- Support of NMEA 0183 Protocol
- Internal patch antenna
- Mini USB port for power supply
- Home and car charger as well as Mini-USB
- and belt pouch included in delivery

Specification

- Chipset: u-blox ANTARIS®4 SuperSense®
- Frequency: L1, 1575.42 MHz
- C/A Code: 1.023 MHz
- Channels: 16 channels max.
- Positions update rate: 4 Hz
- Tracking sensitivity: -158 dBm
- Acquisition sensitivity: -148 dBm
- Cold start sensitivity: -142 dBm
- Position accuracy 2,5m CEP[2], 5,0m SEP[3] and SBAS[1] 2,0m CEP[2], 3,0m SEP[3]
- Speed: 0.1 m/s
- Time: 1us synchronized to GPS time

Time

- Re-registration: 1 sec., average
- Hot start: 3,5 sec., average
- Warm start: 33 sec., average
- Cold start: 34 sec., average

Date

- Basic settings : WGS-84

Dynamic facts

- Recepetion height: Max. 18,000 Meter (60,000 Feet)
- Reception speed: Max. 515 Meter/sec
- Speed-up: Max. 4g
- Shock: Max. 20m/sec × 3

Power supply

- Power connection: 5V DC via Mini-USB connector
- Battery performance: 3,7V Li-ION 1000mA

Interface characteristics

- Baud rate: 9,600 bps
- Output protocol: NMEA 0183 GGA, GLL, GSA, GSV, RMC, VTG

Physical characteristics

- Size: 71,20mm x 41,80mm x 21,80mm
- Working temperature range: -10°C to +60°C

Bundle Version with Navilock Europe Route Planner and GPS Pilot or Directions Navigator 7 available

u-blox Version

1 SBAS (Satellite Based Agmentation System) is the generic term that refers to differential GPS applied to a wide area, such as an entire continent. WAAS and EGNOS are examples of SBAS networks, and are comprised of a series of reference stations that generate GPS corrections which are broadcast to GPS rovers via geostationary satellites.

2 CEP (Circular Error Probable) - In a circular normal distribution, the radius of the circle containing 50 percent of the individual measurements being made, or the radius of the circle within which there is a 50 percent probability of being located.

3 SEP (Spherical Error Probable) The radius of a sphere within which there is a 50 percent probability of locating a point or being located. SEP is the three-dimensional analogue of CEP.

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